## IN THE CLAIMS

Please amend the claims as follows:

1. (currently amended) An apparatus for controlling modulation of an alternating waveform on a direct current (DC) signal intended for a load, said apparatus comprising:

a DC power supply for providing a DC voltage; and

a mixing/switching circuit having a first transistor and a capacitor for adding a modulating signal to said DC voltage and for selectively allowing said modulated DC voltage to supply said load, wherein said mixing/switching circuit includes a first transistor, a capacitor, a resistor, and a common control signal input for controlling said adding function and said selectively allowing function.

- 2. cancelled
- (presently presented) The apparatus of Claim 1, wherein said first transistor is an NPN 3. Darlington transistor.
- 4. (original) The apparatus of Claim 1, wherein said mixing/switching circuit includes a second and third transistors, two resistors and two diodes for selectively allowing said modulated DC voltage to supply said load.
- 5. (original) The apparatus of Claim 4, wherein said second transistor is a PNP transistor and said third transistor is an NPN transistor.
- 6. (original) The apparatus of Claim 1, wherein said apparatus operates either in a modulation mode or in a disconnect mode.

Amendment under 37 C.F.R. § 1.111

Page 2

\$1LA0006.AM2

7. (original) A low-noise block (LNB) control device capable of controlling modulation of an alternating waveform on a direct current (DC) voltage from a DC power supply to an LNB amplifier, said LNB control device comprising:

a power supply feedback line for receiving a power supply feedback signal from said DC power supply;

a power supply control line for sending a control signal to said DC power supply in response to said received power supply feedback signal;

an LNB amplifier feedback line for receiving a LNB amplifier feedback signal from said LNB amplifier; and

a modulating/switch control line for sending a modulating/switch control signal to a mixing/switching circuit in response to said received LNB amplifier feedback signal, wherein said modulating/switch control signal adds a modulating waveform to said DC voltage and selectively allows said modulated DC voltage to reach said LNB amplifier.

- 8. (original) The LNB control device of Claim 7, wherein said mixing/switching circuit is coupled between said DC power supply and said LNB amplifier.
- 9. (original) The LNB control device of Claim 8, wherein said mixing/switching circuit is configured to add a modulating signal to said DC voltage and to selectively allow said modulated DC voltage to supply said LNB amplifier, wherein said mixing/switching circuit includes a common control signal input for controlling said adding function and said selectively allowing function.
- 10. (original) The LNB control device of Claim 9, wherein said mixing/switching circuit includes a first transistor and a capacitor for adding said modulating signal to said DC voltage.

Amendment under 37 C.F.R. § 1.111

Page 3

SILA0006.AM2

- (original) The LNB control device of Claim 10, wherein said first transistor is an NPN 11. Darlington transistor.
- 12. (previously presented) The LNB control device of Claim 10, wherein said mixing/ switching circuit includes a second and third transistors, two resistors and two diodes for selectively allowing said modulated DC voltage to supply said load.
- 13. (original) The LNB control device of Claim 12, wherein said second transistor is a PNP transistor and said third transistor is an NPN transistor.
- (original) The LNB control device of Claim 9, wherein said mixing/switching circuit 14. operates either in a modulation mode or in a disconnect mode.